In the claims:

1. (cancelled).

2. (cancelled).

3. (cancelled).

4. (withdrawn): A method of enabling a user to create an instance in a formal language of the kind which has a strictly defined syntax, comprising

providing a graphically displayed list of entries which are expressed in natural language and which do not comply with said syntax,

permitting the user to point to an entry on said list, and

automatically generating said instance corresponding to the identified entry in the list in response to said pointing.

5. (withdrawn): A method of generating a table for aiding conversion of voiced utterances to control commands for use in controlling an operating system of a computer to achieve desired actions in an application program running under the operating system, said application program including menus and control buttons, said method comprising

automatically by computer parsing an application program to identify menu entries and control buttons, and

automatically by computer placing a table entry in said table for each menu entry and control button found in the application program, each table entry placed in said table containing one of said control commands corresponding to said menu entry or control button.

6. (previously presented): A voice user interface system for producing input to a computer, said computer having a display, said display having a pointer indicating a position on said display, and a program for execution on said computer, a state of said program comprising a

configuration on said display, said configuration being associated with control of said program, the system comprising

a voice recognizer for recognizing a voiced utterance and for providing corresponding signals as input to said computer, and

a converter for converting said voiced utterance into a command string including a command directing motion of said pointer relative to said configuration

7. (previously presented): The system of claim 6 wherein said command string further comprises a command to said program.

8. (previously presented): A voice user interface system for recognizing a voiced utterance and producing corresponding input to a program for execution on a computer, comprising

a voice recognizer for recognizing a voiced utterance and for providing a corresponding signal as an input to said computer, and

a converter for converting said voiced utterance to an output string for delivery as input to said computer based on an evaluation of said voiced utterance and on a state of the subsystem comprising said voice recognizer and said converter.

9. (previously presented): A voice user interface system for recognizing a voiced utterance and producing corresponding input to a program for execution on a computer, comprising

a voice recognizer for recognizing a voiced utterance and for providing a corresponding signal as an input to said computer, and

a converter for converting said voiced utterance to an output string for delivery as input to said computer based on an evaluation of said voiced utterance and on a state of said program.

10. (previously presented): The system of claim 9 further comprising commands to said program having a format to carry associated text strings as arguments, further comprising means for converting a series of voiced utterances into commands with said associated text as output of said device.

11. (previously presented): The system of claim 9 wherein said program, when operated without said converter, offers to its user, menu selections that said user selects via keyboard input, and wherein said converter, when used to select the same menu selection based on a voiced utterance, produces a series of operating system events in response to said keyboard input.

12. (previously presented): The system of claim 9 wherein said operating system of said computer maintains an event queue, said converter delivering said output string to said event queue.

13. (previously presented): A system for enabling voiced utterances to be substituted for manipulation of a pointing device to control motion of a displayed location indicator on a computer display,

the indicator being moved by an operating system in a computer in response to control signals received from the pointing device, comprising

a voice recognizer for recognizing a voiced utterance, and

an interpreter functionally connected to said voice recognizer for converting a voiced utterance into control signals which will cause movement of the indicator in a desired direction

aided by the operating system in the computer, said movement continuing unabated until stopped by an action of the user.

14. (previously presented): A voice user interface device comprising

means for converting a voiced utterance into a corresponding signal as an input to a computer,

means for converting a voiced utterance as either one to be converted to said signal or as one to be converted to said command.

15. (previously presented): A voice user interface system for recognizing a voiced utterance and producing corresponding input to a program for execution on a computer, comprising

a voice recognizer for recognizing said voiced utterance,

a converter for converting said recognized voiced utterance to an output string of characters or commands for input to said computer,

a set of representations, one such representation for each voiced utterance recognized by said voice recognizer, said representations internal to said voice recognizer and said converter,

a set of output strings produced by said voice recognizer and said converter as input to said program, and

a mapping from a member of said set of internal representations to a member of said set of output strings, said mapping being multiple-to-one and being used by said converter.

16. (withdrawn).

17. (withdrawn).

18. (withdrawn).

19. (withdrawn).

20. (withdrawn).

21. (withdrawn).

22. (withdrawn).

23. (withdrawn).

24. (withdrawn).

25. (withdrawn).

26. (withdrawn).

27. (withdrawn).

28. (withdrawn).

29. (withdrawn).

30. (withdrawn).

31. (withdrawn).

32. (withdrawn).

33. (withdrawn).

34. (withdrawn).

35. (new): A method for use with a machine having a graphical user interface and an

application program, the method comprising:

the graphical user interface enabling a user to launch the application program;

receiving a voiced utterance from a user; and

launching the application program in response to the received voiced utterance.

36. (new): The method of claim 35 in which an operating system provides the

graphical interface.

37. (new): The method of claim 35 in which the graphical user interface is shown on

a display.

38. (new): The method of claim 35 in which the machine comprises a computer.

39. (new): The method of claim 35 in which there are multiple application programs

and also comprising:

the graphical user interface enabling a user to launch each of the application programs,

and

launching at least one of the application programs in response to the received voiced

utterance.

40. (new): The method of claim 1 in which

there are multiple application programs, an operating system provides the graphical user

interface, the graphical user interface is shown on a display, and the machine comprises a

computer.

the graphical user interface enabling a user to launch each of the application programs,

and

launching at least one of the application programs in response to the received voiced

utterance.

41. (new): A method for use with a machine having a pointing device, and a

graphical user interface that includes a cursor and at least one other graphical item, the method

comprising:

receiving a voiced utterance from a user; and

manipulating the one other graphical item in response to receiving the voiced utterance.

42. (new): The method of claim 41 in which an operating system provides the graphical user interface.

43. (new): The method of claim 41 in which the graphical user interface is shown on a display

44. (new): The method of claim 41 in which the machine comprises a computer.

45. (new): The method of claim 41 in which there are multiple other graphical items, the method also comprising

manipulating at least one of the other graphical items based on the voiced utterance that is received.

46. (new): The method of claim 45 in which the one other graphical item comprises a window.

47. (new): The method of claim 46 in which manipulating the one other graphical item comprises performing a graphical operation on the window.

48. (new): The method of claim 47 in which the graphical operation comprises closing the window.

49. (new): The method of claim 47 in which the graphical operation comprises moving the window.

50. (new): The method of claim 47 in which the graphical operation comprises zooming the window.

51. (new): The method of claim 47 in which the graphical operation comprises moving the window toward the front or rear of a stack.

52. (new): A method for use with a machine having a pointing device and an operating system providing a graphical user interface that includes a menu that may be invoked in response to the pointing device, the menu including selectable menu items associated with respective functions that may be performed, the method comprising:

receiving a first voiced utterance from a user; and

displaying the menu in response to receiving the first voiced utterance.

53. (new): The method of claim 52 in which there are multiple menus that may be invoked in response to the pointing device, each of the menus including selectable menu items associated with respective functions that may be performed.

54. (new): The method of claim 52 in which the graphical user interface is shown on a display.

55. (new) The method of claim 52 in which the machine comprises a computer.

56. (new) The method of claim 52 also including receiving a second voiced utterance from a user;

in response to receiving the second voiced utterance, performing a function associated with a menu item included on said displayed menu.

57. (new): The method of claim 56, also comprising, in response to the second voiced utterance, modifying the appearance of the included menu item.
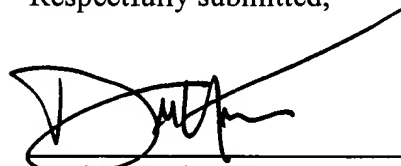
Please apply any charges or credits to Deposit Account No. 06-1050, reference 10591-

003008.

Respectfully submitted,

Date: 11/7/3

David L. Feigenbaum
Reg. No. 30,378

Fish & Richardson P.C.
225 Franklin Street
Boston, MA 02110-2804
Telephone: (617) 542-5070
Facsimile: (617) 542-8906

20752405.doc